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ABSTRACT

The selected information sources held by the Arkansas University library which are listed include such general sources as Moody's and Standard and Poor's publications and bibliographies for financial and operating ratios. Reference books for engineering published between 1965-1976 include handbooks, dictionaries, manuals, encyclopedias, biographical sources, and indexes and abstracts. A section on science and technology lists general biographical sources, e.g., encyclopedias, histories, and biographies; those devoted to specific fields are listed separately. Library holdings and call number are provided for most items. (MBR)

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Prepared by Joan Ahrens

Date compiled 1976

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General encyclopedias (classed Ref AE) are always good sources of biography. Foreign encyclopedias will be quite useful, as will the more specific National and Regional biographical sources in the Reference Department.

GENERAL

Academie des Sciences, Paris. Index Biographique des Membres et Correspondants de l'Academie des Sciences du 22 Décembre 1666 au 15 Novembre 1954. 2. éd. 1954. (Ref Q 46 A163 1954)

American Men and Women of Science. 12th ed. 1971-date. (Ref Q 141 A47)

American Men of Science. 1st-11th ed. 1906-69. (Ref Q 141 A47)

Asimov, Isaac. Asimov's Biographical Encyclopedia of Science and Technology. Rev. ed. 1972. (Ref Q 141 A74 1972)

Barr, Ernest S. An Index to Biographical Fragments in Unspecialized Scientific Journals. 1973. (Index Q 141 B29)

Cohen, Harry. Jews in the World of Science; a Biographical Dictionary of Jews Eminent in the Natural and Social Sciences. 1956 (Ref Q 128 C65)

Dictionary of Scientific Biography. 1970-76. v. 1-14. (incomplete 1/77) (Ref Q 141 D5)

Directory of British Scientists. 1963-67 4v. (Ref Q 145 D498)

Howard, Arthur V. Chambers's Dictionary of Scientists. 1951. (Ref Q 141 H69)

McGraw-Hill Modern Men of Science. 1966-68. 2v. (Ref Q 141 M15)

National Academy of Sciences. Biographical Memoir. v. 2, inc., 1878-1886; v. 7-8, inc., 1911-16; v. 9, 1918/19; v. 12, 1925-date. (Q 141 N2)

Poggendorff, Johann C. Biographisch-Literarisches Handwörterbuch zur Geschichte der Exacten Wissenschaften. 1863-1940. 6v. in 9; v. 7, 1956-date. (Ref Z 7404 P74)

Royal Society of London. Biographical Memoirs of Fellows of the Royal Society. v. 1, 1955-date. (Q 41 R9) Stacks.

Royal Society of London. Index to the Proceedings. (Vols. for 1941/50-1951/60 include index to Obituary Notices. Vols. for 1951/60-date include index to Biographical Memoirs) (Q 41 L7 Index) Stacks.

BIOGRAPHICAL SOURCES:
science and technology

Royal Society of London. Obituary Notices of Fellows of the Royal Society. Dec., 1932-1954. 23 nos. (Q 41 L8475) Stacks.

Sarton, George. Introduction to the History of Science. 1927-47. 3v. (Ref Q 125 S32)

Thorndike, Lynn. A History of Magic and Experimental Science. 1923-58. 8v. (Ref Q 125 T52)

Turkevich, John. Prominent Scientists of Continental Europe. 1968. (Ref Q 141 T82)

Turkevich, John. Soviet Men of Science. 1963. (Ref Q 141 T83)

Who's Who in Science in Europe. 1972. 4v. (Ref Q 145 W5 1972)

Who's Who in Science in Europe: . . . West European Scientists. 1967. 3v. (Ref Q 145 W5)

Williams, Trevor I. A Biographical Dictionary of Scientists. 1969. (Ref Q 141 W62 1969b)

World Who's Who in Science . . . from Antiquity to the Present. 1968. (Ref Q 141 W7)

SPECIAL FIELDS

American Men and Women of Science: Agricultural, Animal and Veterinary Sciences. 1974. (Ref S 415 A43)

American Psychiatric Association. Biographical Directory of Fellows and Members. 1973. (Ref RC 326 A56)

Carey, Arthur M. American Firearms Makers . . . from the Colonial Period to the End of the 19th Century. 1953. (Ref TS 535 C26)

Clepper, Henry E. Leaders of American Conservation. 1971. (Ref S 926 A2 C54)

Directory of Osteopathic Specialists. 1st. ed. 1974. (Ref RZ 333 D57)

Engineers Joint Council. Engineers of Distinction; a Who's Who in Engineering. 2d. ed. 1973. (Ref TA 139 E37 1973)

Muthard, John E. Directory of Rehabilitation Consultants, 1971. 1971. (Ref RM 930 M8)

Pritzel, Georg A. Thesaurus Literaturae Botanicae Omnium Gentium. 1950. (orig. pub. 1872/77) (Ref Z 5351 P7 1950)

Schapsmeier, Edward L. Encyclopedia of American Agricultural History. 1975. (Ref S 441 S36)

U.S. Library of Congress. Science Policy Research Division. Astronauts and Cosmonauts; Biographical and Statistical Data. 1975. (Ref TL 789.85 A1 U52 1975)

Who's Who in Aviation, 1942/43. 1942. (Ref TL 539 W55)

Who's Who in Engineering. v. 1-8, 1922-1959. (Ref TA 139 W4)

Who's Who in Railroading in North America. v. 11, 1946; v. 13, 1954; v. 17, 1971. (Ref HE 2723 W5)

ENGINEERING REFERENCE BOOKS

Included on this list are reference books published 1965 to date. The first two groups are on Level 4 Reference, which is located in the Bay 3 reading area on Level 4. The third group is a selection of general science and technology reference books that can be found in the Reference Department, Level 2. Most other engineering books are classified in T and shelved on Level 4, Bays 3 and 4; mathematics is in QA, Level 4, Bay 1.

LEVEL 4 REFERENCE BOOKS

American Institute of Timber Construction. Timber Construction Manual. 1966. (TA 666 A49)

American Society for Metals. Metals Handbook. 1961-71. 8th ed. v.1-6. (Ref TA 459 A5 1961)

American Society for Testing and Materials. Index to ASTM Technical Papers and Reports. 1898-1970. 5v. (TA 401 A514)

American Society of Civil Engineers. Cumulative Index to ASCE Publications. [1930-1959]; [1960-1969] (Ref TA 1 A58 A5)

American Society of Mechanical Engineers. Indexes to Publications. 1963-1974. [v.1-5] (TJ 1 A776)

American Society of Mechanical Engineers. Subject and Author Cumulative Index to Transactions of the ASME, 1957-1970. 1971. (Ref TJ 1 A7742)

American Welding Society. Terms and Definitions. 1969. (Ref TS 227.5 A46)

Baker, R.F. Handbook of Highway Engineering. 1975. (Ref TE 151 B24)

CRC Handbook of Environmental Control. v.4: Wastewater Treatment and Disposal. 1974. (Ref TD 145 C2)

Chemical Engineers Handbook. 1973. 5th ed. (TP 151 C52 1973)

Considine, D.M. Process Instruments and Controls Handbook. 1974. 2d ed. (Ref TS 156.8 C674 1974)

Davis, C.V. Handbook of Applied Hydraulics. 1969. 3d ed. (Ref TC 145 D3 1969)

De Vries, L. German-English Technical and Engineering Dictionary. 1966. 2d ed. (T 9 D48 1966)

Fink, D.G. Electronics Engineers' Handbook. [1975] (Ref TK 7825 P56)

Gaylord, E.H. Structural Engineering Handbook. 1968. (Ref TA 635 G3)

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Gieck, K. Engineering Formulas. 1971. (Ref TA 151 G4713 1971)

Glossary: Water and Wastewater Control Engineering. 1969. (Ref TD 9 G55)

Graf, R.F. Electronic Data Book. 1974. 2d ed. (Ref TK 7825 G68 1974)

Hall, C.W. Encyclopedia of Food Engineering. 1971. (Ref TP 369 H36)

Handbook of Tables for Mathematics. 1967. 3d ed. (Ref QA 47 H32 1967)

Institute of Electrical and Electronics Engineers. Index to IEEE Periodicals: Periodicals, Transactions, Journals, Spectrum. 1971-date. (Ref Z 5832 I54)

Ireson, W.G. Handbook of Industrial Engineering and Management. 1971. 2d ed. (T 56 I7 1971)

Johnson, A.H. Encyclopedia of Food Technology. 1974. (Ref TP 368.2 J63)

Juran, J.M. Quality Control Handbook. 1974. 3d ed. (Ref TS 156 Q3 J8 1974)

Kothandaraman, C.P. Heat and Mass Transfer Data Book. [1975] 2d ed. (Ref QC 320.4 K67 1975)

Kyed, J.M. Scientific, Technical, and Engineering Societies Publications in Print. 1974/75-date. (Ref Z 7911 K92)

La Londe, W.S. Professional Engineer's Examination Questions and Answers. 1966. 2d ed. (Ref TA 159 L3 1966)

Lynch, C.T. CRC Handbook of Materials Science. 1974-75. 3v. (Ref TA 403.4 L94)

Machinery's Handbook. 1975. v.20. (Ref TJ 151 M3)

Materials Engineering. Materials Selector. Annual. Latest 4 years. (TN A M341)

Maynard, H.B. Industrial Engineering Handbook. 1971. 3d ed. (Ref T 56 M38 1971)

Merritt, F.S. Building Construction Handbook. 1975. 3d ed. (Ref TH 151 M4 1975)

Metcut Research Associates, Inc. Machining Data Handbook. 1966. (Ref TJ 1185 M475 1966)

Moffat, D.W. Plant Engineer's Handbook of Formulas, Charts, and Tables. 1974. (Ref TS 184 M63)

Motor's Auto Repair Manual. 1972 ed. (Ref TL 152 M815)

NFPA Handbook of the National Electrical Code. 1972 ed. (TK 260 N2 1972)

National Research Council. Highway Research Board. Publication Index. 1921-1968. (Z 7295 N325)

Nichigai Associates. Cumulative Index to Entire IEEE Group Transactions/Journals, 1951-1971. 1973. (Ref Z 5832 N5)

Pugh, E. A Dictionary of Acronyms and Abbreviations; Some Abbreviations in Management, Technology, and Information Science. 1970. 2d ed. (T 8 P8 1970)

RCA Electronic Components. 1944-72. v.1-11. (TK 7870 R33)

Radio Corporation of America. Electronic Components and Devices. RCA Semiconductor Products Databook. 1966-72. 3v. (Ref TK 7872 S4 R3)

Roark, R.J. Formulas for Stress and Strain. 1975. 5th ed. (Ref TA 407.2 R6 1975)

S.A.E. Handbook. 1975. 2v. (Ref TL 151 S62 1975)

Slattery, W.J. An Index of U.S. Voluntary Engineering Standards. 1971. Supplements 1-2. 1972-75. (QC 100 U57 No.329)

Standard Handbook for Electrical Engineers. 1968. 10th ed. (Ref TK 151 S8 1968)

Standard Handbook for Mechanical Engineers. 1967. 7th ed. (Ref TJ 151 M37 1967)

Steam Tables; Thermodynamic Properties of Water, Including Vapor, Liquid and Solid Phases. 1969. (Ref QC 311 S79 1969b)

Stockel, M.W. Auto Service and Repair. 1975. (Ref TL 152 S7745 1975)

Toboldt, W.K. Goodheart-Willcox Automotive Encyclopedia. 1975. (Ref TL 205 T6)

Vollmer, E. Encyclopedia of Hydraulics, Soil and Foundation Engineering. 1967. (Ref TC 9 V6)

Waddell, J.J. Concrete Construction Handbook. 1974. 2d ed. (Ref TA 681 W23 1974)

Zilly, R.G. Handbook of Environmental Civil Engineering. 1975. (Ref TA 151 Z49)

LEVEL 4 REFERENCE INDEXES and ABSTRACTS

Engineering Index. 1901-1905. (Per Ind E 5851 E6)

Engineering Index. 1906-1907, 1913-date. (Per Ind E 5851 E62)

Institution of Civil Engineers. Abstracts. April 1974-date. (TA 1 I62)

REFERENCE BOOKS

arranged by call number in Science
Stacks, Level 2

This list is a sampling, and a guide. If you ask you can see some of these books, you may find others of interest in the same call number.

American Men and Women of Science. 1906-date. v.1-date. (Ref Q 141)

Aviation and Space Dictionary. 1974. 5th ed. (Ref TL 509 A8 1974)

Brady, G.S. Materials Handbook. 1971. 10th ed. (Ref TA 403 B75 1971)

CRC Handbook of Environmental Control. 1972-73. v.3. (Ref TD 145 C2)

Considine, D.M. Chemical and Process Technology Encyclopedia. 1974. (Ref TP 9 C69)

Dictionary of Scientific Biography. 1970-76. v.1-1 (Ref Q 141 D5)

Encyclopedia of Chemical Technology. 1963-1972. 22v. supp. and index. 2d ed. (Ref TP 9 E685)

Encyclopedia of Industrial Chemical Analysis. 1966-74. v.1-19. (Ref QD 131 E5)

Encyclopedia of Polymer Science and Technology. 1963-1972. 16v. (Ref TP 156 P6 E5)

Handbook of Chemistry and Physics. 1969-1970. v.50. (Ref QD 65 H3 v.50)

Institute of Electrical and Electronics Engineers. Dictionary Subcommittee. IEEE Standard Dictionary of Electrical and Electronics Terms. 1972. (Ref TK 9 I478)

McGraw-Hill Encyclopedia of Science and Technology. 971. 3d ed. (Ref Q 121 M3 1971)

Modern Dictionary of Electronics. 1972. 4th ed. (Ref TK 7804 M6 1972)

Petroleum Processing Handbook. 1967. (Ref TP 690 P4

Simonds, H.R. The Encyclopedia of Basic Materials in Plastics. 1967. (Ref TP 1110 S49)

Pippi, C.J. Computer Dictionary and Handbook. 1972. 2d ed. (Ref QA 76.15 S512 1972)

Thomas' Register of American Manufacturers. 1976 ed. 11v. (cv Ref T 12 T6)

Tuma, J.J. Technology Mathematics Handbook. 1975. ef TA 332 T84)

Another more extensive guide is Periodical Indexes, Abstracting Services, etc.: General, Science and Technology, a list which can be obtained at the Reference Desk.

FINANCIAL RATIOS & OPERATING RATIOS

Some general sources for financial ratios include:

Barometer of Small Business. (HC 101 B25)

Dun's Review. v.61 (1953) to date. (HF 1 D8)
The issues for September through December of each year have financial ratios for retailing, wholesaling, manufacturing and construction lines. Includes brief discussion on how ratios are figured.

Robert Morris Associates. Annual Statement Studies. 1975-1979. (HG 101 R3 RR)
On Reference Reserve.

Troy, Leo. Almanac of Business and Industrial Financial Ratios. (HF 5681 A25 T68)
Latest in Reference. Old issues on Reference Reserve.

Standard and Poor's Industry Survey. (HG 4921 S7483) In the Reserve room.
"Basic surveys on each of 42 industries prepared annually. Gives a few ratios: assets to liabilities; price to earnings; yields as of percent of industry yields."

U.S. Federal Trade Commission. Quarterly Financial Report for Manufacturing Corporations. (HD 9724 A213)
"Financial ratios for over 30 manufacturing industries..."

Some sources that will be useful in computing financial ratios include:

Moody's Handbook of Common Stocks. (HG 4905 M613) Latest in Reserve.

The Moody's manuals:
Moody's Bank and Finance Manual. (HG 4961 M65)
Moody's Industrial Manual. (HG 4961 M67)
Moody's Municipal and Government Manual. (HG 4931 M58)
Moody's OTC Industrial Manual. (HG 4961 M77237)
Moody's Public Utility Manual. (HG 4961 M7285)
Moody's Transportation Manual. (HG 4971 M74)

Standard and Poor's Corporations Records. (HG 4901 S7663)

Standard and Poor's Stock Reports:

American. (HG 4905 S44)
New York. (HG 4905 S443)
Over the Counter. (HG 4905 S444)

Bibliographies

U.S. Small Business Administration. Small Business Bibliography No. 9: Operating Costs and Ratios - Retail. 1964. (SBA 1.3 no.9) (Govt)

U.S. Small Business Administration. Small Business Bibliography No. 11: Operating Costs and Ratios - Wholesale. 1965. (SBA 1.3 no.11) (Govt)